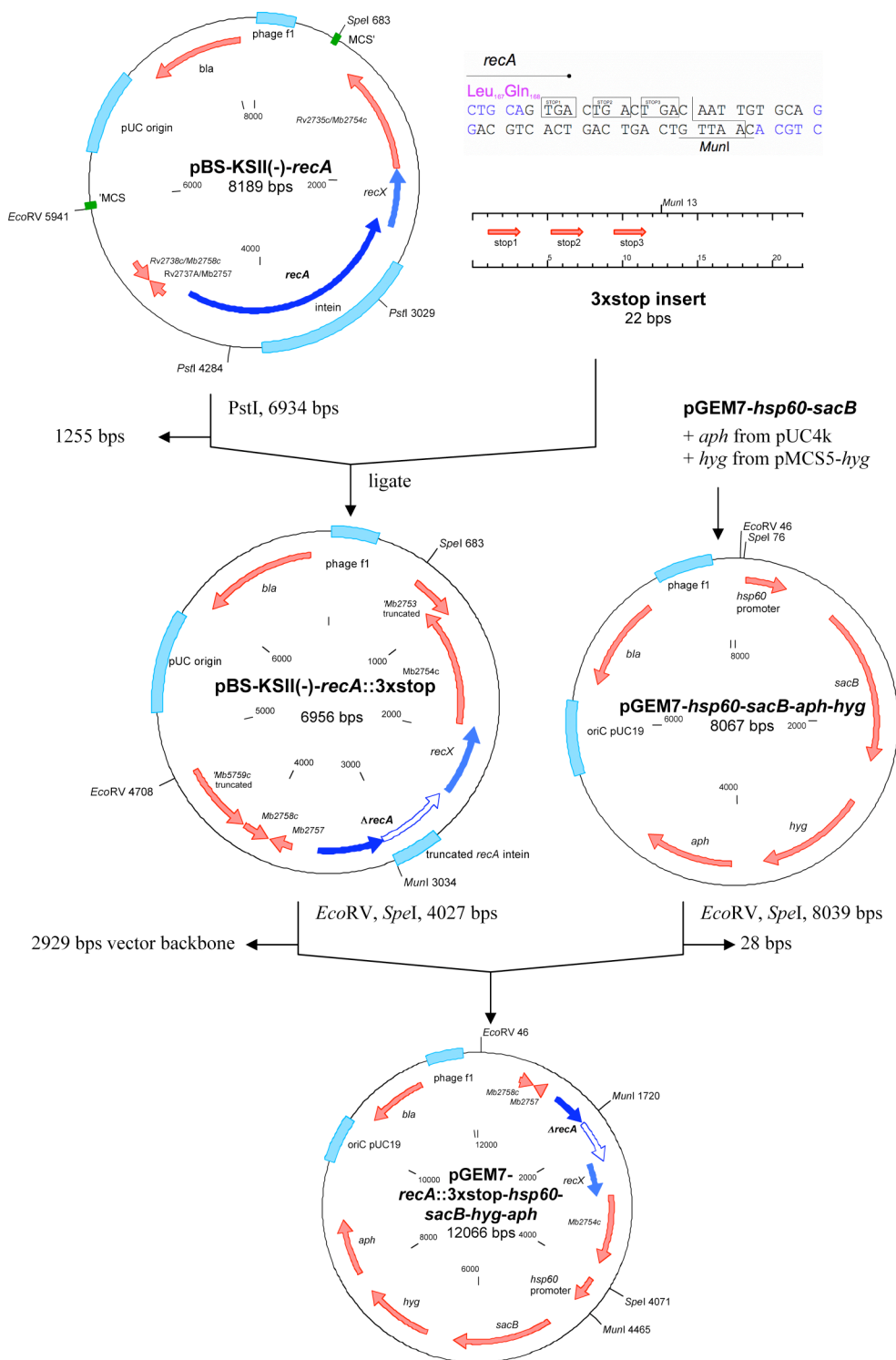


Additional file 1

Cloning of *recA* knock-out vector

Keller et al. Tuberculosis vaccine strain *Mycobacterium bovis* BCG Russia is a natural *recA* mutant.



Additional figure 1 - Cloning of pGEM7-*recA*::3xstop-*hsp60-sacB-hyg-aph* with a 22-bp triple translation stop insert.